

ABSTRACT OF THE DISCLOSURE

A programming model that takes general purpose APIs and machine-generates new programming models based on user defined schemas that provide the developer with data and view separation, and a way to communicate to the host application using the domain of the problem being solved. The system comprises a schema component that the developer uses to define a schema that includes one or more domain terms related to the problem to be solved, and a mapping component that uses the schema to search and map selected constructs from one or more generic host application APIs to the corresponding problem domain terms. Once the mapping is completed, a generating component generates a new API that is used by a host application to facilitate developing an application document using terms related to the domain of the problem to be solved.